

## **Appendix F. Information on Special-Status Species**

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Table F-1. California Special-Status Plant Species

Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
San Mateo thorn-mint <i>Acanthomintha duttonii</i>	E/E/1B		Central Coast, San Francisco Bay area: endemic to San Mateo County	Chaparral, valley and foothill grassland/serpentine	Apr-Jun
San Diego thorn-mint <i>Acanthomintha ilicifolia</i>	T/E/1B		San Diego; Baja California	Chaparral, coastal scrub, valley and foothill grassland, vernal pools/clay	Apr-Jun
Munz's onion <i>Allium munzii</i>	E/T/1B		Riverside County	Chaparral, cismontane woodland, coastal scrub, pinyon and juniper woodland, valley and foothill grassland, mesic, clay	Mar-May
Rawhide Hill onion <i>Allium tuolumnense</i>	PT/--/1B		Central Sierra Nevada foothills: Rawhide Hill, Redhills, Tuolumne County	Cismontane woodland on serpentine soils	May
Sonoma alopecurus <i>Alopecurus aequalis</i> var. <i>sonomensis</i>	E/--/1B		Central coast, including portions of Marin and Sonoma Counties	Marshes and swamps (freshwater), riparian scrub	May-Jul
Large-flowered fiddleneck <i>Amsinckia grandiflora</i>	E/E/1B		San Joaquin Valley: Alameda, Contra Costa, and San Joaquin Counties; currently known from only two natural occurrences	Annual grassland, cismontane woodland, on open grassy slopes below 1,200 feet	Apr-May
Hoffmann's rock cress <i>Arabis hoffmannii</i>	E/--/1B		Anacapa Island*, Santa Cruz Island, Santa Rosa Island	Coastal bluff scrub, chaparral, coastal scrub / rocky, volcanic cliff ledges	Feb-Apr
Johnston's rock cress <i>Arabis johnstonii</i>	PT/--/1B		San Jacinto Mountains, Riverside County	Chaparral, Lower montane coniferous forest, often on eroded clay	Feb-Jun
McDonald's rock cress <i>Arabis macdonaldiana</i>	E/E/1B		Outer north Coast Range, including portions of Del Norte, Mendocino, Siskiyou, and Trinity Counties; Oregon	Lower montane coniferous forest, upper montane coniferous forest, serpentine	May-Jun

\* = extirpated from that area, (?) = uncertain whether occurs in that area.

Table F-1. Continued

Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Santa Rosa Island manzanita <i>Arctostaphylos confertiflora</i>	E/--/1B		Santa Rosa Island	Broadleafed upland forest, closed-cone coniferous forest, chaparral, sandstone	Feb-Apr
Vine Hill manzanita <i>Arctostaphylos densiflora</i>	SC/E/1B		South northern outer Coast Ranges: Vine Hill, Forestville, Sonoma County	Chaparral (acid marine sand)	Feb-Mar
Del Mar manzanita <i>Arctostaphylos glandulosa</i> ssp. <i>crassifolia</i>	E/--/1B		Southern south coast, San Diego County; Baja California	Chaparral (maritime, sandy mesas and bluffs)	Dec-Apr
Hearst's manzanita <i>Arctostaphylos hookeri</i> ssp. <i>hearstiorum</i>	SC/E/1B		Central coast: Arroyo de la Cruz, San Luis Obispo County	Chaparral (maritime), coastal prairie, coastal scrub, valley and foothill grassland, sandy	Feb-Apr
Presidio manzanita <i>Arctostaphylos hookeri</i> ssp. <i>ravenii</i>	E/E/1B		Northern central coast: San Francisco Presidio, San Francisco County	Chaparral, coastal prairie, coastal scrub, serpentine soils	Feb-Mar
San Bruno Mountain manzanita <i>Arctostaphylos imbricata</i>	SC/E/1B		Western San Francisco Bay: San Bruno Mountain, San Mateo County	Chaparral	Feb-May
Morro Bay manzanita <i>Arctostaphylos morroensis</i>	T/--/1B		Southern central coast: Morro Bay, San Luis Obispo County	Chaparral, cismontane woodland, coastal dunes (pre-flandrian), coastal scrub, sandy loam soils	Jan-Mar
Ione manzanita <i>Arctostaphylos myrtifolia</i>	PT/--/1B		Central Sierra Nevada foothills: Amador and Calaveras Counties	Chaparral, cismontane woodland, acidic Ione clay or sandy soils	Nov-Feb
Pallid manzanita <i>Arctostaphylos pallida</i>	T/E/1B		Eastern San Francisco Bay area:- Sobrante and Huckleberry ridges, Berkeley-Oakland Hills, Alameda and Contra Costa Counties	Chaparral, on dry stony ridges; cismontaine woodland; broadleaf forest; 660-1155 feet elevation; in shale	January-March
Marsh sandwort <i>Arenaria paludicola</i>	E/E/1B		Only known occurrence near Black Lake on Nipomo Mesa, San Luis Obispo County; historically more wide ranging	Marshes and swamps (freshwater)	May-Aug

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Table F-1. Continued

Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Big Bear Valley sandwort <i>Arenaria ursina</i>	PT/--/1B		Eastern San Bernardino Mountains: Bear Valley, San Bernardino County	Pebble plain (pavement); Pinyon and juniper woodland; mesic, rocky soils	May-Aug
Humboldt milk-vetch <i>Astragalus agnicidus</i>	SC/E/1B		Outer north Coast Ranges: Humboldt County	Broadleafed upland forest (disturbed openings)	Jun-Aug
Cushenbury milk-vetch <i>Astragalus albens</i>	E/--/1B		Northeast San Bernardino Mountains, Mojave Desert: Cushenbury Canyon, San Bernardino County	Joshua tree woodland, Mohavean Desert scrub, pinyon and juniper woodland, carbonate or granitic	Mar-May
Braunton's milk-vetch <i>Astragalus brauntonii</i>	E/--/1B		Simi Hills in eastern Ventura and western Los Angeles Counties: San Ynez Canyon, Los Angeles County; Coal and Gypsum Canyons, Orange County	Chaparral (on limestone outcrops), closed-cone coniferous forest, chaparral, coastal scrub, valley and foothill grassland, recent burns or disturbed areas	March-July
Clara Hunt's milk-vetch <i>Astragalus clarianus</i>	E/T/1B		Southern north Coast Ranges, including portions of Napa and Sonoma Counties	Chaparral (openings); cismontane woodland; valley and foothill grassland; serpentinite, volcanic, rocky, clay	Mar-Apr
Lane Mountain milk-vetch <i>Astragalus jaegerianus</i>	E/--/1B		Mojave Desert (near Barstow), San Bernardino County	Joshua tree woodland; Mohavean Desert scrub; granitic, sandy, or gravelly	Apr-Jun
Coachella Valley milk-vetch <i>Astragalus lentiginosus</i> var. <i>coachellae</i>	E/--/1B		Sonoran Desert: Coachella Valley, Riverside County	Sonoran Desert scrub (sandy)	Feb-May
Fish Slough milk-vetch <i>Astragalus lentiginosus</i> var. <i>piscinensis</i>	T/--/1B		East of Sierra Nevada, Inyo and Mono Counties	Playas (alkaline)	Jun-Jul

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Sodaville milk-vetch <i>Astragalus lentiginosus</i> var. <i>sesquimetricus</i>	--/E/1B		Northern Mojave Desert, northern Death Valley, eastern slope of Last Chance Mountains, Inyo County; Nevada	Meadows (alkaline)	Jun-Jul
Peirson's milk-vetch <i>Astragalus magdalenae</i> var. <i>peirsonii</i>	T/E/1B		Sonoran Desert, Imperial and San Diego*(?) Counties; Arizona; Baja California; Sonora, Mexico	Desert dunes	Dec-Apr
Coastal dunes milk-vetch <i>Astragalus tener</i> var. <i>titi</i>	PE/E/1B		Central coast/southern coast, including portions of Los Angeles*, Monterey, and San Diego*(?) Counties	Coastal bluff scrub (sandy), coastal dunes, coastal prairie on mesic/sandy depressions near the coast	Mar-May
Triple-ribbed milk-vetch <i>Astragalus tricarlinatus</i>	E/--/1B		Riverside and San Bernardino Counties	Joshua tree woodland, Sonoran Desert scrub, sandy or gravelly	Feb-May
San Jacinto Valley crownscale <i>Atriplex coronata</i> var. <i>notatior</i>	E/--/1B		Eastern south coast: San Jacinto Valley, Riverside County	Playas, valley and foothill grassland (mesic), vernal pools, alkaline	Apr-Aug
Bakersfield smallscale <i>Atriplex tularensis</i>	SC/E/1B		Southern San Joaquin Valley: Kern Lake bed, Kern County (possibly extinct)	Valley sink scrub	Jun-Oct
Encinitas baccharis <i>Baccharis vanessae</i>	T/E/1B		Southern south coast, northwestern Peninsular Ranges: San Diego County	Chaparral (maritime, sandstone)	Aug-Nov
Nevin's barberry <i>Berberis nevinii</i>	E/E/1B		Los Angeles, San Bernardino, Riverside, and San Diego Counties	Chaparral, coastal sage scrub, on dry slopes and in sandy washes, at 900 to 1,600 feet	March-April
Island barberry <i>Berberis pinnata</i> ssp. <i>insularis</i>	E/E/1B		Anacapa Island, Santa Cruz Island, Santa Rosa Island*	Closed-cone coniferous forest, chaparral, cismontane woodland, coastal scrub, rocky	Mar
Sonoma sunshine <i>Blennosperma bakeri</i>	E/E/1B		North Coast Ranges, northeastern San Francisco Bay: southern Sonoma County	Valley and foothill grassland (mesic), vernal pools	Mar-Apr

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Table F-1. Continued

Common and Scientific Name	Legal Status <sup>a</sup>	Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS			
Indian Valley brodiaea <i>Brodiaea coronaria</i> ssp. <i>rosea</i>	SC/E/1B	Inner north Coast Ranges: Colusa, Glenn, Lake, and Tehama Counties	Chaparral; closed-cone coniferous forest; cismontane woodland; valley and foothill grassland; in meadows, streambanks, and other vernal moist areas; serpentinite	May-June
Thread-leaved brodiaea <i>Brodiaea filifolia</i>	PT/E/1B	Southern south coast, western Peninsular Ranges: Los Angeles*, western Riverside, San Bernardino*, San Diego Counties	Coastal scrub, cismontaine woodlands, annual grasslands and margins of vernal pools, on gentle hillsides, valleys and floodplains, in clay-loam or alkaline silty-clay soils	Mar-Jun
Kaweah brodiaea <i>Brodiaea insignis</i>	SC/E/1B	Southern Sierra Nevada foothills: Kaweah and Tule River drainages, Tulare County	Cismontane woodland, valley and foothill grassland, granitic or clay	Apr-Jun
Chinese Camp brodiaea <i>Brodiaea pallida</i>	PE/E/1B	Central Sierra Nevada foothills, near Chinese Camp, Tuolumne County	Valley and foothill grassland, vernal swale, on serpentine clay	May-Jun
Tiburon mariposa lily <i>Calochortus tiburonensis</i>	T/T/1B	Northwestern San Francisco Bay: Ring Mountain, Marin County	Valley and foothill grassland (serpentinite)	Mar-Jun
Mariposa pussypaws <i>Calyptridium pulchellum</i>	PE/--/1B	Central Sierra Nevada: Fresno, Madera, and Mariposa Counties	Cismontane woodland (sandy)	Apr-May
Stebbin's morning-glory <i>Calystegia stebbinsii</i>	E/E/1B	Northern Sierra Nevada foothills: Placer and El Dorado Counties	Serpentine or gabbro chaparral opening, woodland	May-June
San Benito evening-primrose <i>Camissonia benitensis</i>	T/--/1B	Inner south Coast Ranges: lower Clear Creek drainage, Fresno and San Benito Counties	Chaparral, cismontane woodland, serpentinite alluvium, clay or gravelly	May-Jun
White sedge <i>Carex albida</i>	E/E/1B	Southern outer north Coast Ranges: Sonoma County	Bogs and fens, marshes and swamps (freshwater)	May-Jul

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Table F-1. Continued

Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Tree-anemone <i>Carpenteria californica</i>	PT/T/1B		Central and southern Sierra Nevada foothills: Kings and San Joaquin Rivers, Fresno and Madera Counties	Chaparral, cismontane woodland, granitic	May-Jul
Tiburon Indian paintbrush <i>Castilleja affinis</i> ssp. <i>neglecta</i>	E/T/1B		Southern inner north Coast Ranges, northwestern San Francisco Bay: Marin, Napa and Santa Clara Counties	Serpentine grasslands	April-June
Succulent owl's-clover <i>Castilleja campestris</i> ssp. <i>succulenta</i>	T/E/1B		Southern Sierra Nevada foothills, eastern San Joaquin Valley: Fresno, Madera, Merced, Mariposa, San Joaquin, and Stanislaus Counties	Vernal pools (often acidic)	Apr-May
Ash-gray Indian paintbrush <i>Castilleja cinerea</i>	PT/--/1B		San Bernardino Mountains, San Bernardino County	Mohavean Desert scrub, meadows, pebble plain, pinyon and juniper woodland, upper montane coniferous forest (clay openings)	Jun-Jul
San Clemente Island Indian paintbrush <i>Castilleja grisea</i>	E/E/1B		San Clemente Island	Coastal bluff scrub, coastal scrub, rocky	Feb-Aug
Soft-leaved Indian paintbrush <i>Castilleja mollis</i>	E/--/1B		San Miguel Island(?)*, Santa Rosa Island	Coastal bluff scrub, coastal dunes	Apr-Aug
Pitkin Marsh Indian paintbrush <i>Castilleja uliginosa</i>	SC/E/1A		Sonoma* County	Marshes and swamps (freshwater)	Jun-Jul
California jewelflower <i>Caulanthus californicus</i>	E/E/1B		Southern San Joaquin Valley, Carrizo Plains: Fresno, Kings*, Kern, Santa Barbara, San Luis Obispo, Tulare*, and Ventura* Counties	Annual grassland, chenopod scrub, pinyon and juniper woodland, in sandy or loamy soils	Feb-May
Coyote ceanothus <i>Ceanothus ferrisiae</i>	E/--/1B		Northeastern San Francisco Bay: Mount Hamilton Range, Santa Clara County	Chaparral, coastal scrub, annual grassland, on serpentine soils	Jan-Mar

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Table F-1. Continued

Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Vail Lake ceanothus <i>Ceanothus ophiophilus</i>	T/E/1B		Northern Peninsular Ranges, near Vale Lake, Riverside County	Chaparral (gabbroic or pyroxenite-rich outcrops)	Feb-Mar
Pine Hill ceanothus <i>Ceanothus roderickii</i>	E/R/1B		Northern Sierra Nevada foothills: Pine Hill, western El Dorado County	Northern mixed chaparral, cismontane woodland, on gabbro soils	May-June
Catalina Island mountain-mahogany <i>Cercocarpus traskiae</i>	E/E/1B		Santa Catalina Island	Chaparral; coastal scrub; rocky, sausserite gabbro	Mar-May
Hoover's spurge <i>Chamaesyce hooveri</i>	T/--/1B		Central Valley, including Butte, Glenn, Merced, Stanislaus, Tehama, and Tulare Counties	Below the high-water marks of large northern hardpan and volcanic vernal pools	Jul
Purple amole <i>Chlorogalum purpureum</i> var. <i>purpureum</i>	PT/--/1B		Northeastern outer south Coast Ranges, eastern Santa Lucia Mountains: Monterey County	Cismontane woodland, valley and foothill grassland	May-Jun
Camatta Canyon amole <i>Chlorogalum purpureum</i> var. <i>reductum</i>	PT/R/1B		Southeastern outer south Coast Ranges, north slope La Panza Range: San Luis Obispo County	Cismontane woodland (serpentinite)	Apr-May
Howell's spineflower <i>Chorizanthe howellii</i>	E/T/1B		Central north coast: Mendocino County	Coastal dunes, coastal prairie, coastal scrub, sandy	May-Jul
Orcutt's spineflower <i>Chorizanthe orcuttiana</i>	E/E/1B		Southern south coast: Del Mar to Point Loma, San Diego County	Chaparral (maritime), closed-cone coniferous forest, coastal scrub, sandy openings	Mar-Apr
Monterey spineflower <i>Chorizanthe pungens</i>	T/--/1B		Monterey and Santa Cruz Counties	Coastal dunes	April-June
Ben Lomond spineflower <i>Chorizanthe pungens</i> var. <i>hartwegiana</i>	E/--/1B		Northern and central central coast: San Francisco Bay, Santa Cruz County	Lower montane coniferous forest (maritime ponderosa pine sandhills)	Apr-Jul

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Table F-1. Continued

Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Monterey spineflower <i>Chorizanthe pungens</i> var. <i>pungens</i>	T/--/1B		Northern and central coast: San Francisco Bay; Monterey, Santa Cruz, and San Luis Obispo* Counties	Chaparral (maritime), cismontane woodland, coastal dunes, coastal scrub, valley and foothill grassland, sandy	Apr-Jun
Scott's Valley spineflower <i>Chorizanthe robusta</i> var. <i>hartwegii</i>	E/--/1B		Scotts Valley in Santa Cruz County	Annual grassland, on soils derived from sedimentary rocks	April-July
Robust spineflower <i>Chorizanthe robusta</i> var. <i>robusta</i>	E/--/1B		Northeast central coast, southwest San Francisco Bay: Alameda*, Monterey, San Mateo*, Santa Clara*, and Santa Cruz Counties	Coastal bluff scrub, coastal dunes openings in cismontane woodland	May-Sep
Sonoma spineflower <i>Chorizanthe valida</i>	E/E/1B		Northern central coast: Point Reyes, Marin and Sonoma* Counties	Coastal prairie (sandy)	Jun-Aug
Ashland thistle <i>Cirsium ciliolatum</i>	--/E/2		Klamath Ranges, Siskiyou County; Oregon	Cismontane woodland, valley and foothill grassland	Jun-Aug
Fountain thistle <i>Cirsium fontinale</i> var. <i>fontinale</i>	E/E/1B		Southwestern San Francisco Bay: San Mateo County	Chaparral (openings), valley and foothill grassland, serpentinite seeps	Jun-Oct
Chorro Creek bog thistle <i>Cirsium fontinale</i> var. <i>obispoense</i>	E/E/1B		Central outer south Coast Ranges: San Luis Obispo County	Chaparral, cismontane woodland, serpentinite seeps	Feb-Jul
Suisun thistle <i>Cirsium hydrophilum</i> var. <i>hydrophilum</i>	E/--/1B		Deltaic central valley: Suisun Marsh, Solano County	Salt marsh	Jul-Sep
La Graciosa thistle <i>Cirsium loncholepis</i>	PT/T/1B		Southern central coast: Santa Barbara and San Luis Obispo Counties	Coastal dunes, brackish marsh	Jun-Aug
Surf thistle <i>Cirsium rorthophilum</i>	SC/T/1B		Southern central coast: Santa Barbara and San Luis Obispo Counties	Coastal bluff scrub, coastal dunes	Apr-Jun

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Table F-1. Continued

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	Federal/State/CNPS				
Presidio clarkia <i>Clarkia franciscana</i>	E/E/1B		San Francisco Bay, Presidio, Oakland hills, Alameda and San Francisco Counties	Serpentine grassland, coastal scrub	May-July
Vine Hill clarkia <i>Clarkia imbricata</i>	E/E/1B		Outer north Coast Ranges: Sonoma County	Chaparral, valley and foothill grassland, acidic sandy loam	Jun-Jul
Merced clarkia <i>Clarkia lingulata</i>	SC/E/1B		Central Sierra Nevada foothills: Merced River Canyon, Mariposa County	Closed-cone coniferous forest, chaparral, cismontane woodland	May-Jun
Pismo clarkia <i>Clarkia speciosa</i> ssp. <i>immaculata</i>	E/R/1B		Southern central coast: San Luis Obispo County	Chaparral (margins, openings), cismontane woodland, valley and foothill grassland, sandy	May-Jun
Springville clarkia <i>Clarkia springvillensis</i>	PT/E/1B		Southern Sierra Nevada foothills: Springville, Tulare County	Chaparral, cismontane woodland, valley and foothill grassland, granitic	May-Jul
Saltmarsh bird's-beak <i>Cordylanthus maritimus</i> ssp. <i>maritimus</i>	E/E/1B		South coast: Los Angeles, Orange, Santa Barbara, San Diego, San Luis Obispo, and Ventura Counties; Baja California	Coastal dunes, marshes and swamps (coastal salt)	May-Oct
Soft bird's-beak <i>Cordylanthus mollis</i> ssp. <i>mollis</i>	E/R/1B		San Francisco Bay, Suisun Marsh, Contra Costa, Marin*, Napa, Sacramento*, Solano, and Sonoma* Counties	Salt marsh	Jul-Sep
Palmate-bracted bird's-beak <i>Cordylanthus palmatus</i>	E/E/1B		Livermore Valley, Central Valley, including portions of Alameda, Colusa, Fresno, Madera*, San Joaquin*, and Yolo Counties	Alkali meadow, alkali scrub, chenopod scrub, alkaline flats	May-Oct
Seaside bird's-beak <i>Cordylanthus rigidus</i> ssp. <i>littoralis</i>	SC/E/1B		Central and southern central coast: Monterey and Santa Barbara Counties	Coastal sage scrub	May-Sep
Pennell's bird's-beak <i>Cordylanthus tenuis</i> ssp. <i>capillaris</i>	E/R/1B		Southwestern outer north Coast Ranges: Sonoma County	Closed-cone coniferous forest, chaparral, serpentinite	Jun-Jul

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Santa Cruz cypress <i>Cupressus abramsiana</i>	E/E/1B		Santa Cruz and San Mateo Counties	Closed-cone coniferous forest, lower montane coniferous forest, sandstone or granitic	
Gowen cypress <i>Cupressus goveniana</i> ssp. <i>goviana</i>	T/--/1B		Monterey County	Closed-cone coniferous forest, chaparral (maritime)	
Baker's larkspur <i>Delphinium bakeri</i>	PE/R/1B		Marin and Sonoma Counties*	Coastal scrub	Mar-May
Yellow larkspur <i>Delphinium luteum</i>	PE/R/1B		Sonoma County	Chaparral, coastal prairie, coastal scrub	Mar-May
San Clemente Island larkspur <i>Delphinium variegatum</i> ssp. <i>kinkiense</i>	E/E/1B		San Clemente Island	Valley and foothill grassland (coastal)	Mar-Apr
Geysers's dichanthelium <i>Dichanthelium lanuginosum</i> var. <i>thermale</i>	SC/E/1B		Sonoma County	Closed-cone coniferous forest, riparian forest, valley and foothill grassland, hydrothermally-altered soil	Jun-Aug
Beach spectaclepod <i>Dithyrea maritima</i>	SC/T/1B		Los Angeles*, Santa Barbara, and San Luis Obispo Counties; Santa Catalina Island*, San Miguel Island*, San Nicolas Island; Baja California	Coastal dunes, coastal scrub (sandy)	Mar-May
Slender-horned spineflower <i>Dodecahema leptoceras</i>	E/E/1B		Los Angeles, Riverside, and western San Bernardino Counties	Coastal sage scrub, on flood deposited terraces and washes, below 2,200 feet	April-June
Slender-horned spineflower <i>Dodecahema leptoceras</i>	E/E/1B		Los Angeles, Riverside, and San Bernardino Counties	Chaparral, coastal scrub (alluvial fan), sandy	Apr-Jun
Cuyamaca Lake downingia <i>Downingia conco lor</i> var. <i>brevior</i>	SC/E/1B		San Diego County	Meadows (vernally mesic), vernal pools	May-Jul

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Conejo dudleya <i>Dudleya abramsii</i> ssp. <i>parva</i>	T/--/1B		Ventura County	Coastal scrub; valley and foothill grassland; rocky, clay	May-Jun
Short-leaved dudleya <i>Dudleya blochmaniae</i> ssp. <i>brevifolia</i>	SC/E/1B		San Diego County	Chaparral (maritime, openings), coastal scrub, Torrey sandstone	Apr
Marcescent dudleya <i>Dudleya cymosa</i> ssp. <i>marcescens</i>	T/R/1B		Los Angeles and Ventura Counties	Chaparral (volcanic)	Apr-Jun
Santa Monica Mtns. dudleya <i>Dudleya cymosa</i> ssp. <i>dvatifolia</i>	T/--/1B		Los Angeles, Orange, and Ventura Counties	Chaparral, coastal scrub, volcanic	Mar-Jun
Santa Cruz Island dudleya <i>Dudleya nesiotica</i>	T/R/1B		Santa Cruz Island	Coastal bluff scrub, coastal scrub, rocky or gravelly, clay	Apr-Jun
Santa Clara Valley dudleya <i>Dudleya setchellii</i>	E/--/1B		Santa Clara County	Cismontane woodland; valley and foothill grassland; serpentinite, rocky	May-Jun
Laguna Beach dudleya <i>Dudleya stolonifera</i>	PE/T/1B		Orange County	Chaparral, cismontane woodland, coastal scrub, valley and foothill grassland, rocky soils	May-Jul
Santa Barbara Island dudleya <i>Dudleya traskiae</i>	E/E/1B		Santa Barbara Island	Coastal bluff scrub, coastal scrub, rocky	Feb-Jul
Verity's dudleya <i>Dudleya verityi</i>	T/--/1B		Ventura County	Chaparral, cismontane woodland, coastal scrub, volcanic	May-Jun
Kern mallow <i>Eremalche parryi</i>	E/--/1B		Vicinity of Lokern, Kern County	Valley sink scrub, saltbush scrub, on sandy clay-loam soils, between 600-900 feet	April-May
Santa Ana River woollystar <i>Eriastrum densifolium</i> ssp. <i>sanctorum</i>	E/E/1B		Orange*, Riverside, and San Bernardino Counties	Chaparral, coastal scrub (alluvial fan), sandy or gravelly, at 1,240 - 1,900 feet	Jun-Sep

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Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Hoover's eriastrum <i>Eriastrum hooveri</i>	T/--/4		Fresno, Kings, Kern, Santa Barbara, San Benito, San Luis Obispo, and Tulare Counties	Chenopod scrub, pinyon and juniper woodland, valley and foothill grassland	Mar-Jul
Parish's daisy <i>Erigeron parishii</i>	T/--/1B		Riverside and San Bernardino Counties	Mohavean Desert scrub, pinyon and juniper woodland, usually carbonate	May-Jun
Indian knob mountainbalm <i>Eriodictyon altissimum</i>	E/E/1B		San Luis Obispo County	Chaparral (maritime), cismontane woodland, sandstone	Mar-Jun
Trinity buckwheat <i>Eriogonum alpinum</i>	SC/E/1B		Siskiyou and Trinity Counties	Alpine boulder and rock field; subalpine coniferous forest; upper montane coniferous forest; serpentinite, rocky	Jun-Sep
Ione buckwheat <i>Eriogonum apricum</i> var. <i>apricum</i>	PE/E/1B		Amador County	Chaparral (openings, Ione soil)	Jul-Oct
Irish Hill buckwheat <i>Eriogonum apricum</i> var. <i>prostratum</i>	PE/E/1B		Amador County	Chaparral (openings, Ione soil)	Jun-Jul
Thorne's buckwheat <i>Eriogonum ericifolium</i> var. <i>thornei</i>	SC/E/1B		San Bernardino County	Pinyon and juniper woodland (gravelly)	Jul-Aug
San Nicolas Island buckwheat <i>Eriogonum grande</i> var. <i>timorum</i>	SC/E/1B		San Nicolas Island	Coastal bluff scrub	Mar-Oct
Kellogg's buckwheat <i>Eriogonum kelloggii</i>	C/E/1B		Red Mountain, Mendocino County	Lower montane coniferous forest (rocky, serpentinite)	May-Aug
Southern mountain buckwheat <i>Eriogonum kennedyi</i> var. <i>austromontanum</i>	PT/--/1B		San Bernardino County	Lower montane coniferous forest (gravelly), pebble plain	Jul-Sep

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Table F-1. Continued

Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Cushenbury buckwheat <i>Eriogonum ovalifolium</i> var. <i>vineum</i>	E/--/1B		San Bernardino County	Joshua tree woodland, Mohavean Desert scrub, pinyon and juniper woodland, carbonate	May-Aug
San Mateo woolly sunflower <i>Eriophyllum latilobum</i>	E/E/1B		San Mateo County	Cismontane woodland (serpentine, often on roadcuts)	May-Jun
San Diego button-celery <i>Eryngium aristulatum</i> var. <i>parishii</i>	E/E/1B		Riverside and San Diego Counties; Baja California	Coastal scrub, valley and foothill grassland, vernal pools, mesic	Apr-Jun
Loch Lomond button-celery <i>Eryngium constancei</i>	E/E/1B		Lake and Sonoma Counties	Vernal pools	Apr-Jun
Delta button-celery <i>Eryngium racemosum</i>	SC/E/1B		San Joaquin River delta and floodplains; Calaveras, Merced, San Joaquin*, and Stanislaus Counties	Riparian scrub (vernally mesic clay depressions)	Jun-Aug
Contra Costa wallflower <i>Erysimum capitatum</i> ssp. <i>angustatum</i>	E/E/1B		Contra Costa County	Inland dunes	Mar-Jul
Humboldt Bay wallflower <i>Erysimum menziesii</i> ssp. <i>eurekaense</i>	E/E/1B		Humboldt County	Coastal dunes	Mar-Apr
Menzies's wallflower <i>Erysimum menziesii</i> ssp. <i>menziesii</i>	E/E/1B		North coast: Mendocino and Monterey County	Coastal dunes, coastal scrub	Mar-Jun
Yadon's wallflower <i>Erysimum menziesii</i> ssp. <i>yadonii</i>	E/E/1B		Monterey County	Coastal dunes	Jun-Aug
Santa Cruz wallflower <i>Erysimum teretifolium</i>	E/E/1B		Santa Cruz County	Chaparral, lower montane coniferous forest, inland marine sands	Mar-Jul
Pine Hill flannelbush <i>Fremontodendron decumbens</i>	E/R/1B		Pine Hill (El Dorado County) near Grass Valley (Nevada County)	Gabbro or serpentine chaparral, woodland	April-July

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Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Mexican flannelbush <i>Fremontodendron mexicanum</i>	E/R/1B		San Diego and Imperial Counties	Chaparral, oak woodland, closed-cone coniferous forest, along creeks or in dry canyons	March-June
Roderick's fritillary <i>Fritillaria roderickii</i>	--/E/1B		Mendocino County	Coastal bluff scrub, coastal prairie, valley and foothill grassland	Mar-May
Striped adobe-lily <i>Fritillaria striata</i>	PT/T/1B		Southeastern San Joaquin Valley, western Sierra Nevada foothills, northern foothills of the Tehachapi Mountains, Kern and Tulare Counties	Cismontane woodland, valley and foothill grassland, usually clay, between 1,000-4,000 feet	Feb-Apr
Box bedstraw <i>Galium buxifolium</i>	E/R/1B		Santa Cruz Island, San Miguel Island	Coastal bluff scrub, closed-cone coniferous forest, coastal scrub, rocky	Mar-Jul
El Dorado bedstraw <i>Galium californicum</i> ssp. <i>sierrae</i>	E/R/1B		El Dorado County	Chaparral, cismontane woodland, lower montane coniferous forest, gabbroic	May-Jun
San Clemente Island bedstraw <i>Galium catalinense</i> ssp. <i>acrispum</i>	SC/E/1B		San Clemente Island	Valley and foothill grassland	Mar-Aug
Sand gilia <i>Gilia tenuiflora</i> ssp. <i>arenaria</i>	E/T/1B		Monterey County	Chaparral (maritime), cismontane woodland, coastal dunes, coastal scrub, sandy	Apr-Jun
Hoffmann's slender-flowered gilia <i>Gilia tenuiflora</i> ssp. <i>hoffmannii</i>	E/--/1B		Santa Rosa Island	Coastal dunes, coastal scrub	Apr-May
Bogg's Lake hedge-hyssop <i>Gratiola heterosepala</i>	--/E/1B		Fresno, Lake, Lassen, Madera, Modoc, Placer, Sacramento, Shasta, San Joaquin, Solano, and Tehama Counties; Oregon	Marshes and swamps (lake margins), vernal pools, clay	Apr-Aug

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Table F-1. Continued

Common and Scientific Name	Legal Status <sup>a</sup>	Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS			
Ash Meadows gumplant <i>Grindelia fraxino-pratensis</i>	T/--/1B	Inyo County; Nevada	Meadows (mesic clay)	Jun-Oct
Island rush-rose <i>Helianthemum greenii</i>	T/--/1B	San Clemente Island, Santa Cruz Island, San Miguel Island, Santa Rosa Island*(?)	Closed-cone coniferous forest, chaparral, cismontane woodland, coastal scrub, rocky	Mar-Jul
Algodones Dunes sunflower <i>Helianthus niveus</i> ssp. <i>tephrodes</i>	SC/E/1B	Imperial County; Arizona, Sonora, Mexico	Desert dunes	Sep-May
Otay tarplant <i>Hemizonia conjugens</i>	T/E/1B	San Diego County; Baja California	Coastal scrub, valley and foothill grassland, clay	May-Jun
Gaviota tarplant <i>Hemizonia increscens</i> ssp. <i>villosa</i>	C/E/1B	Santa Barbara County	Coastal bluff scrub, Coastal scrub, valley and foothill grassland	Jun-Sep
Mojave tarplant <i>Hemizonia mohavensis</i>	SC/E/1A	Riverside, San Bernardino*, and San Diego Counties	Chaparral (mesic), riparian scrub	Jul-Oct
Marin western flax <i>Hesperolinon congestum</i>	T/T/1B	Marin, San Francisco, and San Mateo Counties	Chaparral, valley and foothill grassland, serpentinite	May-Jul
Lake County western flax <i>Hesperolinon didymocarpum</i>	SC/E/1B	Lake County	Chaparral, cismontane woodland, valley and foothill grassland, serpentinite	May-Jul
Santa Cruz tarplant <i>Holocarpha macradenia</i>	PT/E/1B	Coastal California from San Luis Obispo County to Marin County	Coastal prairie and annual grasslands, on sandy clay soils	June-October
Water howellia <i>Howellia aquatilis</i>	T/--/1A	Mendocino*, Idaho, Oregon*, Washington	Marshes and swamps (freshwater)	Jun
Burke's goldfields <i>Lasthenia burkei</i>	E/E/1B	Lake, Mendocino, and Sonoma Counties	Meadows (mesic), vernal pools	Apr-Jun

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	Federal/State/CNPS				
Contra Costa goldfields <i>Lasthenia conjugens</i>	E/--/1B		Alameda, Contra Costa, Mendocino*, Napa, Santa Barbara*, Santa Clara*, and Solano Counties	Cismontane woodland, playas (alkaline), valley and foothill grassland, vernal pools, mesic, below 700 feet	Mar-Jun
Beach layia <i>Layia carnosa</i>	E/E/1B		Humboldt, Monterey, Marin, Santa Barbara*, San Francisco* Counties	Coastal dunes, coastal scrub (sandy)	Apr-Jul
San Joaquin woollythreads <i>Lembertia congdonii</i>	E/--/1B		Fresno, Kings, Kern, Santa Barbara, San Benito, San Luis Obispo, and Tulare* Counties	Chenopod scrub, valley and foothill grassland, alkaline or loamy soils	Feb-May
San Bernardino Mtns. bladderpod <i>Lesquerella kingii</i> ssp. <i>bernardina</i>	E/--/1B		San Bernardino County	Lower montane coniferous forest, pinyon and juniper woodland, usually carbonate	May-Jun
San Francisco lessingia <i>Lessingia germanorum</i>	E/E/1B		San Francisco and San Mateo Counties	Coastal scrub (remnant dunes)	Jun-Nov
Western lily <i>Lilium occidentale</i>	E/E/1B		Del Norte and Humboldt Counties, Oregon	Bogs and fens, coastal bluff scrub, coastal prairie, coastal scrub, marshes and swamps (freshwater), north coast coniferous forest (openings)	Jun-Jul
Pitkin Marsh lily <i>Lilium pardalinum</i> ssp. <i>pitkinense</i>	PE/E/1B		Sonoma County	Cismontane woodland; meadows; marshes and swamps (freshwater); mesic, sandy	Jun-Jul
Point Reyes meadowfoam <i>Limnanthes douglasii</i> ssp. <i>sulphurea</i>	SC/E/1B		Marin and San Mateo Counties	Coastal prairie, meadows (mesic), marshes and swamps (freshwater), vernal pools	Mar-May
Butte County meadowfoam <i>Limnanthes floccosa</i> ssp. <i>californica</i>	E/E/1B		Butte County	Valley and foothill grassland (mesic), vernal pools	Mar-May

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Table F-1. Continued

Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Parish's meadowfoam <i>Limnanthes gracilis</i> ssp. <i>parishii</i>	SC/E/1B		Riverside and San Diego Counties	Meadows (vernally mesic), vernal pools	Apr-Jun
Sebastopol meadowfoam <i>Limnanthes vinculans</i>	E/E/1B		Napa(?) and Sonoma Counties	Meadows, valley and foothill grassland, vernal pools, vernally mesic	Apr-May
San Clemente Island woodland star <i>Lithophragma maximum</i>	PE/E/1B		San Clemente Island	Coastal bluff scrub, coastal scrub, rocky	Apr-Jun
San Clemente Island bird's-foot trefoil <i>Lotus argophyllus</i> var. <i>adsurgens</i>	SC/E/1B		San Clemente Island	Coastal bluff scrub, coastal scrub, rocky	Apr-Jun
Santa Cruz Island bird's-foot trefoil <i>Lotus argophyllus</i> var. <i>niveus</i>	SC/E/1B		Santa Cruz Island	Coastal bluff scrub, chaparral, coastal scrub, rocky	Mar-Sep
San Clemente Island lotus <i>Lotus dendroideus</i> var. <i>traskiae</i>	E/E/1B		San Clemente Island	Coastal bluff scrub, coastal scrub, valley and foothill grassland	Feb-Aug
Mariposa lupine <i>Lupinus citrinus</i> var. <i>deflexus</i>	PE/T/1B		Mariposa County	Chaparral, cismontane woodland, granitic	Apr-May
Milo Baker's lupine <i>Lupinus milo-bakeri</i>	SC/T/1B		North Coast Ranges: Colusa and Mendocino Counties	Cismontane woodland (often along roadsides), valley and foothill grassland	Jun-Sep
Nipomo Mesa lupine <i>Lupinus nipomensis</i>	C/E/1B		San Luis Obispo County	Coastal dunes	Mar-May
Tidestrom's lupine <i>Lupinus tidestromii</i>	E/E/1B		Monterey, Marin, and Sonoma Counties	Coastal dunes	May-Jun
San Clemente Island bush mallow <i>Malacothamnus clementinus</i>	E/E/1B		San Clemente Island	Valley and foothill grassland (rocky)	Mar-Aug

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Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Santa Cruz Island bush mallow <i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i>	E/E/1B		Santa Cruz Island	Chaparral, coastal scrub, rocky	Apr-Jul
Santa Cruz Island cliff-aster <i>Malacothrix indecora</i>	E/--/1B		Santa Cruz Island, San Miguel Island	Coastal bluff scrub, chaparral, coastal dunes, coastal scrub	Apr-Sep
Island malacothrix <i>Malacothrix squelida</i>	E/--/1B		Amacapa Island, Santa Cruz Island	Coastal bluff scrub, chaparral, cismontane woodland	Apr-Jul
Kelso Creek monkeyflower <i>Mimulus shevockii</i>	PE/--/1B		Kern County	Joshua tree woodland, pinyon and juniper woodland, sandy, granitic	Mar-May
Willow monardella <i>Monardella linoides</i> ssp. <i>viminea</i>	E/E/1B		San Diego County; Baja California	Closed-cone coniferous forest, chaparral, riparian forest, riparian scrub, riparian woodland	Jun-Aug
Spreading navarretia <i>Navarretia fossalis</i>	T/--/1B		Riverside and San Diego Counties; Baja California	Chenopod scrub, marshes and swamps (assorted shallow freshwater), playas, vernal pools	Apr-Jun
Few-flowered navarretia <i>Navarretia leucocephala</i> ssp. <i>pauciflora</i>	E/T/1B		Lake and Napa Counties	Vernal pools (volcanic ash flow)	May-Jun
Many-flowered navarretia <i>Navarretia leucocephala</i> ssp. <i>plieantha</i>	E/E/1B		Lake and Sonoma Counties	Vernal pools (volcanic ash flow)	May-Jun
Piute Mtns. navarretia <i>Navarretia setiloba</i>	PT/--/1B		Kern and Tulare Counties	Cismontane woodland, pinyon and juniper woodland, valley and foothill grassland, clay or gravelly loam	Apr-Jun

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Table F-1. Continued

Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Colusa grass <i>Neostapfia colusana</i>	T/E/1B		Colusa*, Merced, Solano, Stanislaus, and Yolo Counties	Vernal pools (adobe)	May-Aug
Amargosa nitrophila <i>Nitrophila mohavensis</i>	E/E/1B		Inyo County; Nevada	Playas (mesic, clay)	May-Oct
Dehesa nolina <i>Nolina interrata</i>	--/E/1B		San Diego County; Baja California	Chaparral (gabbroic, metavolcanic, or serpentinite)	Jun-Jul
Eureka Dunes evening-primrose <i>Oenothera californica</i> ssp. <i>eurekensis</i>	E/R/1B		Inyo County	Desert dunes	Apr-Jul
Antioch Dunes evening-primrose <i>Oenothera deltoides</i> ssp. <i>howellii</i>	E/E/1B		Contra Costa County	Inland dunes	Mar-Sep
Bakersfield cactus <i>Opuntia basilaris</i> var. <i>treleasei</i>	E/E/1B		Southern San Joaquin Valley in Kern County	Chenopod scrub, cismontane woodland, valley and foothill grassland, sandy or gravelly, between 500-1,800 feet	May
California Orcutt grass <i>Orcuttia californica</i>	E/E/1B		Scattered occurrences in southwest California: Los Angeles, Riverside, San Diego, and Ventura Counties; Baja California	Vernal pools	Apr-Aug
San Joaquin Valley Orcutt grass <i>Orcuttia inaequalis</i>	T/E/1B		Scattered locations along east edge of the San Joaquin Valley and adjacent foothills: Fresno, Madera, Merced, Stanislaus*, and Tulare* Counties	Vernal pools	Apr-Sep
Hairy Orcutt grass <i>Orcuttia pilosa</i>	E/E/1B		Scattered locations along east edge of the Central Valley and adjacent foothills: Butte, Glenn, Madera, Merced, Stanislaus, and Tehama Counties	Vernal pools	May-Sep

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Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Slender Orcutt grass <i>Orcuttia tenuis</i>	T/E/1B		Sierra Nevada and Cascade Range foothills: Lake, Lassen, Plumas, Sacramento, Shasta, Siskiyou, and Tehama Counties	Vernal pools	May-Oct
Sacramento Orcutt grass <i>Orcuttia viscida</i>	E/E/1B		Sacramento County	Vernal pools	May-Jun
Cushenbury oxytheca <i>Oxytheca parishii</i> var. <i>goodmaniana</i>	E/--/1B		San Bernardino County	Pinyon and juniper woodland (carbonate, talus)	May-Sep
Lake County stonecrop <i>Parvisedum leiocarpum</i>	E/E/1B		Lake County	Cismontane woodland, valley and foothill grassland, vernal pools, vernal mesic depressions in volcanic outcrops	Apr-May
White-rayed pentachaeta <i>Pentachaeta bellidiflora</i>	E/E/1B		Marin*, Santa Cruz*, and San Mateo Counties	Valley and foothill grassland (often serpentinite)	Mar-May
Lyon's pentachaeta <i>Pentachaeta lyonii</i>	E/E/1B		Los Angeles and Ventura Counties, Santa Catalina Island(?)*	Chaparral (openings), valley and foothill grassland	Mar-Aug
Northern Channel Islands phacelia <i>Phacelia insularis</i> var. <i>insularis</i>	E/--/1B		San Miguel Island, San Rosa Island	Coastal dunes, valley and foothill grassland	Mar-Apr
Yreka phlox <i>Phlox hirsuta</i>	C/E/1B		Siskiyou County	Lower montane coniferous forest, upper montane coniferous forest, serpentinite talus	Apr-Jun
Yadon's rein orchid <i>Piperia yadonii</i>	PE/--/1B		Monterey County	Coastal bluff scrub, closed-cone coniferous forest, chaparral (maritime), sandy	May-Aug
San Francisco popcorn-flower <i>Plagiobothrys diffusus</i>	SC/E/1B		Santa Cruz and San Francisco* Counties	Coastal prairie, valley and foothill grassland?	Apr-Jun

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Table F-1. Continued

Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Calistoga popcorn-flower <i>Plagiobothrys strictus</i>	PE/T/1B	Napa County		Broadleaved upland forest, meadows, valley and foothill grassland, vernal pools, alkaline areas near thermal springs	Mar-Jun
San Bernardino blue grass <i>Poa atropurpurea</i>	PE/--/1B	San Bernardino and San Diego Counties		Meadows (mesic)	Apr-Aug
Napa blue grass <i>Poa napensis</i>	PE/E/1B	Napa County		Meadows, valley and foothill grassland, alkaline, near hot springs	May-Aug
San Diego mesa mint <i>Pogogyne abramsii</i>	E/E/1B	San Diego County		Vernal pools	Apr-Jun
Santa Lucia mint <i>Pogogyne clareana</i>	SC/E/1B	Monterey County		Riparian woodland	May-Jun
Otay Mesa mint <i>Pogogyne nudiuscula</i>	E/E/1B	San Diego County; Baja California(?)*		Vernal pools	May-Jun
Hickman's cinquefoil <i>Potentilla hickmanii</i>	PE/E/1B	Monterey, San Mateo, and Sonoma* Counties		Coastal bluff scrub, closed-cone coniferous forest, meadows (vernally mesic), marshes and swamps (freshwater)	Apr-Aug
Hartweg's golden sunburst <i>Pseudobahia bahiifolia</i>	E/E/1B	Eastern side of Sacramento-San Joaquin Valleys, formerly as far north as Yuba County		Rocky, bare areas along rolling hills, adjacent to vernal pools, usually with heavy clay soils	Mar-Apr
San Joaquin adobe sunburst <i>Pseudobahia peirsonii</i>	T/E/1B	Fresno, Kern, and Tulare Counties		Cismontane woodland, valley and foothill grassland, adobe clay	Mar-Apr
Parish's alkali-grass <i>Puccinellia parishii</i>	PE/--/1B	Kern(?) and San Bernardino Counties; Arizona; New Mexico		Meadows (alkaline springs and seeps), at 2,300-6,000 feet	Apr-May

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Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Gambel's water cress <i>Rorippa gambellii</i>	E/T/1B		Los Angeles*, Orange*, Santa Barbara*, San Bernardino*, San Diego(?)*, and San Luis Obispo Counties; Baja California	Marshes and swamps (freshwater or brackish)	Apr-Sep
Tahoe yellow cress <i>Rorippa subumbellata</i>	SC/E/1B		El Dorado, Nevada*, and Placer Counties	Lower montane coniferous forest, meadows, decomposed granitic beaches	May-Sep
Small-leaved rose <i>Rosa minutifolia</i>	SC/E/2		San Diego County; Baja California	Chaparral, coastal scrub	Jan-Jun
Layne's butterweed <i>Senecio layneae</i>	T/R/1B		El Dorado and Tuolumne Counties	Chaparral and foothill woodland, on serpentine or gabbro soils	April-July
Layne's ragwort <i>Senecio layneae</i>	T/R/1B		El Dorado and Tuolumne Counties	Chaparral, cismontane woodland, serpentinite or gabbroic, rocky	Apr-Jul
Santa Cruz Island rock cress <i>Sibara filifolia</i>	E/--/1B		San Clemente Island, Santa Catalina Island*, and Santa Cruz Island*	Coastal scrub (rocky, volcanic)	Mar-Apr
Owens Valley checkerbloom <i>Sidalcea covillei</i>	SC/E/1B		Inyo County	Great Basin scrub, meadows (alkaline, mesic)	Apr-Jun
Keck's checkerbloom <i>Sidalcea keckii</i>	PE/--/1B		Tulare and Fresno(?)* Counties	Cismontane woodland, valley and foothill grassland, serpentinite	Apr
Kenwood Marsh checkerbloom <i>Sidalcea oregana</i> ssp. <i>valida</i>	PE/E/1B		Sonoma County	Marshes and swamps (freshwater)	Jun-Sep
Bird-foot checkerbloom <i>Sidalcea pedata</i>	E/E/1B		San Bernardino County	Meadows (mesic), pebble plain	May-Aug
Scadden Flat checkerbloom <i>Sidalcea stipularis</i>	SC/E/1B		Two occurrences near Scadden Flat (Nevada County)	Freshwater seep; wet meadow	July-August

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Table F-1. Continued

Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Red Mountain catchfly <i>Silene campanulata</i> ssp. <i>campanulata</i>	C/E/1B		North Coast Ranges, Colusa and Mendocino Counties	Chaparral, lower montane coniferous forest, serpentinite, rocky	May-Jun
Metcalf Canyon jewel-flower <i>Streptanthus albidus</i> ssp. <i>albidus</i>	E/--/1B		Santa Clara County	Valley and foothill grassland (serpentinite)	Apr-Jul
Tiburon jewel-flower <i>Streptanthus niger</i>	E/E/1B		Marin County	Valley and foothill grassland (serpentinite)	May-Jun
California seablite <i>Suaeda californica</i>	E/--/1B		Alameda* and Santa Clara* Counties; Morro Bay, San Luis Obispo; historically found in south San Francisco Bay	Marshes and swamps (coastal salt)	Jul-Oct
Eureka Valley dune grass <i>Swallenia alexandrae</i>	E/R/1B		Inyo County	Desert dunes	Apr-Jun
California dandelion <i>Taraxacum californicum</i>	PE/--/1B		San Bernardino County	Meadows (mesic)	May-Aug
Slender-petaled thelypodium <i>Thelypodium stenopetalum</i>	E/E/1B		San Bernardino County	Meadows (mesic, alkaline)	May-Aug
Santa Cruz Island fringe-pod <i>Thysanocarpus conchuliferus</i>	E/--/1B		Santa Cruz Island	Chaparral, cismontane woodland, rocky	Mar-May
Hidden Lake bluecurls <i>Trichostema austromontanum</i> ssp. <i>compactum</i>	PT/--/1B		Riverside County	Upper montane coniferous forest, seasonally submerged lake margins	Jul-Sep
Showy Indian clover <i>Trifolium amoenum</i>	E/--/1B		Coast Range foothills from Mendocino to Santa Clara County	Low elevation grasslands, including swals and disturbed areas	Apr-Jun
Monterey clover <i>Trifolium trichocalyx</i>	PE/E/1B		Monterey County	Closed-cone coniferous forest (openings, burned areas)	Apr-Jun

\* = extirpated from that area, (?) = uncertain whether occurs in that area.



Common and Scientific Name	Legal Status <sup>a</sup>		Geographic Distribution	Habitat Requirements	Identification Period
	Federal/State/CNPS				
Greene's tuctoria <i>Tuctoria greenei</i>	E/R/1B		Scattered distribution along east edge of the Central Valley from Tehama to Merced County; Fresno, Madera, San Joaquin, Stanislaus, and Tulare Counties	Vernal pools	May-Jul
Crampton's tuctoria <i>Tuctoria mucronata</i>	E/E/1B		Solano and Yolo Counties	Valley and foothill grassland (mesic), vernal pools	Apr-Jul
California vervain <i>Verbena californica</i>	PT/T/1B		Tuolumne County	Cismontane woodland, valley and foothill grassland (mesic), usually serpentinite seeps or creeks	May-Sep
Crownbeard <i>Verbesina dissita</i>	T/T/1B		Orange County; Baja California	Chaparral (maritime), coastal scrub	Apr-Jul

<sup>a</sup> Status explanations:

#### Federal

- E = listed as endangered under the federal Endangered Species Act.
- T = listed as threatened under the federal Endangered Species Act.
- PE = proposed for federal listing as endangered under the federal Endangered Species Act.
- PT = proposed for federal listing as threatened under the federal Endangered Species Act.
- C = species for which USFWS has on file sufficient information on biological vulnerability and threat(s) to support issuance of a proposed rule to list.
- SC = species of concern; species for which existing information indicates it may warrant listing but for which substantial biological information to support a proposed rule is lacking.
- = no listing.

#### State

- E = listed as endangered under the California Endangered Species Act.
- T = listed as threatened under the California Endangered Species Act.
- R = listed as rare under the California Native Plant Protection Act. This category is no longer used for newly listed plants, but some plants previously listed as rare retain this designation.
- = no listing.

\* = extirpated from that area, (?) = uncertain whether occurs in that area.

**California Native Plant Society**

- 1A = List 1A species: presumed extinct in California.
  - 1B = List 1B species: rare, threatened, or endangered in California and elsewhere.
  - 2 = List 2 species: rare, threatened, or endangered in California but more common elsewhere.
  - 4 = List 4 species: plants of limited distribution.
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Table F-2. California Special-Status Wildlife Species

Page 1 of 12

Common and Scientific Name	Status <sup>a</sup>		California Distribution	Habitats
	Federal/State			
Trinity bristlenail (=California northern river snail) <i>Monadenia setosa</i>	SC/T	Swede Creek, tributary to Trinity River, Trinity County	On moss and in forest duff accumulated under trees on more stable portions of talus slopes	
Morro shoulderband (=banded dune snail) <i>Helminthoglypta walkeriana</i>	E/--	Restricted to Morro Bay and Montana de Oro State Parks	Data not available	
Longhorn fairy shrimp <i>Branchinecta longiantenna</i>	E/--	Eastern margin of central Coast Ranges from Contra Costa County to San Luis Obispo County	Small, clear pools in sandstone rock outcrops of clear to moderately turbid clay- or grass-bottomed pools	
Conservancy fairy shrimp <i>Branchinecta conservatio</i>	E/--	Disjunct occurrences in Solano, Merced, Tehama, Butte, and Glenn Counties	Large, deep vernal pools in annual grasslands	
Vernal pool fairy shrimp <i>Branchinecta lynchi</i>	T/--	Central Valley, central and south Coast Ranges from Tehama County to Santa Barbara County; isolated populations also in Riverside County	Common in vernal pools; also found in sandstone rock outcrop pools	
San Diego fairy shrimp <i>Branchinecta sandiegonensis</i>	E/--	San Diego County and northwestern Baja California	Vernal pools	
Vernal pool tadpole shrimp <i>Lepidurus packardii</i>	E/--	Shasta County south to Merced County	Vernal pools and ephemeral stock ponds	
Riverside fairy shrimp <i>Streptocephalus woottoni</i>	E/--	Southwestern Riverside County, Orange and San Diego Counties	Vernal pools	
Shasta (=placid) crayfish <i>Pacifastacus fortis</i>	E/E	Pit River drainage in Shasta County, including tributaries of the Hat Creek and Fall River subdrainages	Streams	
California freshwater shrimp <i>Syncaris pacifica</i>	E/--	Coastal lowland streams in Napa, Marin, and Sonoma Counties	Streams	
Valley elderberry longhorn beetle <i>Desmocerus californicus dimorphus</i>	T/--	Streamside habitats below 3,000 feet through the Central Valley of California	Riparian and oak savanna habitats with elderberry shrubs; elderberries are host plant	
Delta green ground beetle <i>Elaphrus viridus</i>	T/--	Restricted to Olcott Lake and other vernal pools at Jepson Prairie Preserve, Solano County	Sparsely vegetated edges of vernal lakes and pools	

Common and Scientific Name	Status <sup>a</sup>		California Distribution	Habitats
	Federal/State			
Mount Hermon (=barbate) June beetle <i>Polyphylla barbata</i>	E/--		Santa Cruz Mountains	Occurs on Zaxante soils, typically in Ponderosa Pine sand parklands
Delhi Sands flower-loving fly <i>Rhaphiomidas terminatus abdominalis</i>	E/--		Delhi sand dunes; 10 known populations	Sand, California buckwheat for feeding and lays eggs in sand near telegraph weed
Kern primrose sphinx moth <i>Euproserpinus euterpe</i>	T/--		Walker Basin, Kern County	Dry, disturbed, sandy-gravelly washes adjacent to fallow fields where its larval food plant, the evening primrose, occurs
El Segundo blue <i>Euphilotes</i> (= <i>Shijimiaeoides</i> ) <i>battoides allyni</i>	E/--		Although once more widespread, now restricted to two sites: approximately 270 acres at Los Angeles International Airport and approximately 1.3 acres at the Chevron refinery in El Segundo	Native vegetated sand dune habitats with its host plant, <i>Eriogonum parvifolium</i>
Lange's metalmark <i>Apodemia mormo langei</i>	E/--		Once occupied the Antioch Dunes; range now reduced to less than 10 acres in Contra Costa County	Limited to dense to moderately dense patches of food plant, wild buckwheat, in stabilized sand dunes
Palos Verdes blue butterfly <i>Glaucopsyche lydamus palosverdesensis</i>	E/--		Palos Verde Peninsula, Los Angeles County	Lupines, wild peas, and vetch
Mission blue <i>Icaricia icarioides missionensis</i>	E/--		San Bruno Mountain, San Mateo County; Twin Peaks, San Francisco County	Hill and ridgetops, as well as slopes with south exposure with caterpillar food plants, <i>Lupinus</i> spp.
San Bruno elfin <i>Callophrys mossii bayensis</i>	E/--		San Bruno Mountain, Montara Mountains, and northern end of Santa Cruz Mountains, San Mateo County	North-facing slopes and ridges facing Pacific Ocean from 600 to 1,100 feet
Lotis blue <i>Lycaeides argyrognomon lotis</i>	E/--		In and around a few sphagnum bogs near Mendocino, Mendocino County; Mendocino Pygmy Forest	Coastal peat bogs and pygmy conifer forest inland from coastal sand dunes
Smith's blue <i>Euphilotes</i> (= <i>Shijimiaeoides</i> ) <i>enoptes smithi</i>	E/--		Localized populations along the immediate coast and in coastal canyons of Monterey County; single populations reported in Santa Cruz and San Mateo Counties	Coastal dunes and hillsides that support seacliff buckwheat ( <i>Eriogonum parvifolium</i> ) or coast buckwheat ( <i>Eriogonum latifolium</i> ); these plants used as a nectar source for adults and host plant for larvae

Table F-2. Continued

Common and Scientific Name	Status <sup>a</sup>		California Distribution	Habitats
	Federal/State			
Bay checkerspot butterfly <i>Euphydryas editha bayensis</i>	T/--		Vicinity of San Francisco Bay	Native grasslands on outcrops of serpentine soil; California plantain and owl's clover are host plants
Quino checkspot butterfly <i>Euphydryas editha quino</i> (=wrighti)	E/--		Portions of Riverside and San Diego Counties	Locally distributed in sunny openings in chaparral and coastal sage shrublands
Oregon silverspot butterfly <i>Speyeria zerene hippolyta</i>	T/--		No information	No information
Myrtle's silverspot butterfly <i>Speyeria zerene myrtleae</i>	E/--		Coastal Marin and San Mateo Counties	Typically found in forests
Laguna Mountains skipper <i>Pyrgus ruralis lagunae</i>	E/--		Laguna Mountains, Mount Palomar, San Diego County	High-elevation mountain habitats
Santa Cruz long-toed salamander <i>Ambystoma macrodactylum croceum</i>	E/E		Small populations and breeding sites in southern Santa Cruz County and northern Monterey County	Lifetime spent mostly underground in willow groves, coastal scrub, coast live oak, or riparian habitats; migrates to breeding ponds in early to late winter, and juveniles disperse from the pond in September
Siskiyou Mountains salamander <i>Plethodon stormi</i> (=P. elongatus s.)	SC/T		In California, occurs only in Siskiyou County in drainages near the Applegate River, Deid Creek, and Horse Creek; Siskiyou Mountains of southern Oregon and northern California	A fully terrestrial salamander with no larval stage; requires humid conditions to survive and reproduce; found at elevations from 1,600 to 3,500 feet associated with talus slopes and north- and east-facing slopes
Desert slender salamander <i>Batrachoseps aridus</i>	E/E		Riverside County	Occurs beneath limestone slabs and talus and in crevices in moist soil on canyon walls
Kern Canyon slender salamander <i>Batrachoseps simatus</i>	SC/T		Restricted to the lower Kern River Canyon, Kern County	Under rocks, logs, large rock slides, and talus on north-facing slopes
Tehachapi slender salamander <i>Batrachoseps stebbinsi</i>	SC/T		Restricted to the Tehachapi Mountains, Kern County	North-facing talus slopes in valley-foothill hardwood, mixed conifer, and valley-foothill riparian habitats

Common and Scientific Name	Status <sup>a</sup>		California Distribution	Habitats
	Federal/State			
Shasta salamander <i>Hydromantes shastae</i>	SC/T	Restricted to several tributaries of the McCloud River, Pit River, and Squaw Creek, Shasta County	Limestone caves at elevations from 1,000 to 3,000 feet	
Limestone salamander <i>Hydromantes brunus</i>	SC/T	Merced River Canyon near Briceburg, along the Bear Creek, and near Lake McClure, all in Mariposa County	Limestone outcrops and talus slopes in the foothill pine-chaparral belt	
Arroyo southwestern toad <i>Bufo microscaphus californicus</i>	E/SSC, FP	Along the coast and foothills from San Luis Obispo County to San Diego County and inland to San Bernardino County	Prefers sandy arroyos and river bottoms with open riparian vegetation in inland valleys and foothills; also may use flooded agricultural fields and irrigation ditches	
California red-legged frog <i>Rana aurora draytoni</i>	T/SSC, FP	Found along the coast and coastal mountain ranges of California from Humboldt County to San Diego County; Sierra Nevada from Butte County to Fresno County	Permanent and semipermanent aquatic habitats, such as creeks and coldwater ponds, with emergent and submergent vegetation and riparian species along the edges; may estivate in rodent burrows or cracks during dry periods	
Desert tortoise <i>Gopherus</i> (= <i>Xerobates</i> , = <i>Scaptochelys</i> ) <i>agassizii</i>	T/T	Southern California deserts in Inyo, San Bernardino, Kern, Los Angeles, Riverside, San Diego, and Imperial Counties	Desert areas from 300 to 900 feet with sandy loam to gravelly soils for digging dens; favors creosote and cactus scrub habitats with high densities of annual blooms in spring for feeding	
Barefoot gecko <i>Coleonyx switaki</i> (= <i>Anarbylus</i> s.)	SC/T	Six known populations in California, all in San Diego and Imperial Counties; may also be undiscovered populations in Riverside County	Various types of rock outcroppings; active only from May through September	
Coachella Valley fringe-toed lizard <i>Uma inornata</i>	T/E	Coachella Valley sand dunes in Riverside County	Sparse desert scrub and alkali desert scrub, which has fine, loose, wind-blown sand	
Blunt-nosed leopard lizard <i>Gambelia</i> (= <i>Crotaphytus</i> ) <i>silus</i>	E/E	San Joaquin Valley from Stanislaus County through Kern County and along the eastern edges of San Luis Obispo and San Benito Counties	Open habitats with scattered low bushes on alkali flats, and low foothills, canyon floors, plains, washes, and arroyos; substrates may range from sandy or gravelly soils to hardpan	

Table F-2. Continued

Common and Scientific Name	Status <sup>a</sup>		California Distribution	Habitats
	Federal/State			
Flat-tailed horned lizard <i>Phrynosoma mcallii</i>	--/SSC, FP		Populations in Imperial, San Diego, and Riverside Counties	Sandy areas, desert pavement, and locations with soils; shares the same wind-blown, fine-sand habitat as the fringe-toed lizard
Island night lizard <i>Xantusia riversiana</i>	T/SSC		Channel Islands (i.e., Santa Barbara, Sutil, San Clemente, and San Nicolas Islands)	Rock outcroppings and shrub cover
Southern rubber boa <i>Charina bottae umbratica</i>	SC/T		Fragmented populations occur in La Panza Range, San Luis Obispo County; San Gabriel Mountains, Los Angeles County; and the Tehachapi Mountains, Kern County	Moist coniferous forests and montane hardwood habitats with suitable escape cover, including rocks, logs, and leaf litter
Alameda whipsnake <i>Masticophis lateralis euryxanthus</i>	T/T		Restricted to Alameda and Contra Costa Counties	Valleys, foothills, and low mountains associated with northern coastal scrub or chaparral habitat; requires rock outcrops for cover and foraging
San Francisco garter snake <i>Thamnophis sirtalis tetrataenia</i>	E/E		Northern San Mateo County southward along the coast and the eastern slope of the Santa Cruz Mountains to the Santa Clara County line	Favors ponds, lakes, and marshy areas containing abundant vegetation, which it uses for cover
Giant garter snake <i>Thamnophis gigas</i>	T/T		Central Valley from Fresno north to the Gridley/Sutter Buttes area; has been extirpated from areas south of Fresno	Sloughs, canals, and other small waterways where there is a prey base of small fish and amphibians; requires grassy banks and emergent vegetation for basking and areas of high ground protected from flooding during winter
Brown pelican <i>Pelecanus occidentalis</i>	E/E		Present along the entire coastline, but does not breed north of Monterey County; extremely rare inland	Typically in littoral ocean zones, just outside the surf line; nests on offshore islands
California brown pelican (nesting colony) <i>Pelecanus occidentalis</i>	E/E		Present along the entire coastline, but does not breed north of Monterey County; extremely rare inland	Typically in littoral ocean zones, just outside the surf line; nests on offshore islands
Aleutian Canada goose <i>Branta canadensis leucopareia</i>	T/--		The entire population winters in Butte Sink, then moves to Los Banos, Modesto, the Delta, and East Bay reservoirs; stages near Crescent City during spring before migrating to breeding grounds	Roosts in large marshes, flooded fields, stock ponds, and reservoirs; forages in pastures, meadows, and harvested grainfields; corn is especially preferred

Common and Scientific Name	Status <sup>a</sup>		California Distribution	Habitats
	Federal/State			
California condor <i>Gymnogyps californianus</i>	E/E		Historically, rugged mountain ranges surrounding the southern San Joaquin Valley; currently, most individuals are in captive populations, but a few birds were recently released in the rugged portions of the Los Padres National Forest	Requires large blocks of open savanna, grasslands, and foothill chaparral with large trees, cliffs, and snags for roosting and nesting
Bald eagle <i>Haliaeetus leucocephalus</i>	T/E		Nests in Siskiyou, Modoc, Trinity, Shasta, Lassen, Plumas, Butte, Tehama, Lake, and Mendocino Counties and in the Lake Tahoe Basin; reintroduced into central coast; winter range includes the rest of California, except the southeastern deserts, very high altitudes in the Sierras, and east of the Sierra Nevada south of Mono County; range expanding	In western North America, nests and roosts in coniferous forests within 1 mile of a lake, a reservoir, a stream, or the ocean
Swainson’s hawk <i>Buteo swainsoni</i>	--/T		Lower Sacramento and San Joaquin Valleys, the Klamath Basin, and Butte Valley; the state’s highest nesting densities occur near Davis and Woodland, Yolo County	Nests in oaks or cottonwoods in or near riparian habitats; forages in grasslands, irrigated pastures, grain fields, and vegetable crops
American peregrine falcon <i>Falco peregrinus anatum</i> (nesting)	E/E		Permanent resident on the north and south Coast Ranges; may summer on the Cascade and Klamath Ranges south through the Sierra Nevada to Madera County; winters in the Central Valley south through the Transverse and Peninsular Ranges and the plains east of the Cascade Range	Nests and roosts on protected ledges of high cliffs, usually adjacent to lakes, rivers, or marshes that support large populations of other bird species
California clapper rail <i>Rallus longirostris obsoletus</i>	E/E		Marshes around the San Francisco Bay and east to Suisun Marsh	Restricted to salt marshes and tidal sloughs; usually associated with heavy growth of pickleweed; feeds on mollusks removed from the mud in sloughs
Light-footed clapper rail <i>Rallus longirostris levipes</i>	E/E		Small populations along the coast in Santa Barbara, Ventura, Orange, and San Diego Counties	Restricted to salt marshes and tidal sloughs where pickleweed is abundant
Black rail <i>Laterallus jamaicensis</i>	SC/T		Permanent resident in the San Francisco Bay and eastward through the Delta into Sacramento and San Joaquin Counties; small populations in Marin, Santa Cruz, San Luis Obispo, Orange, Riverside, and Imperial Counties	Tidal salt marshes associated with heavy growth of pickleweed; also occurs in brackish marshes or freshwater marshes at low elevations



Table F-2. Continued

Common and Scientific Name	Status <sup>a</sup>		California Distribution	Habitats
	Federal/State			
Yuma clapper rail <i>Rallus longirostris yumanensis</i>	E/E	Permanent resident in the Salton Sea and along the Colorado River in San Bernardino, Riverside, and Imperial Counties	Freshwater marshes and brackish marshes; requires regenerating marsh for foraging and mature cattail and bulrush for nesting	
Greater sandhill crane <i>Grus canadensis tabida</i>	--/T	Breeds on the plains east of the Cascade Range and south to Sierra County; winters in the Central Valley, southern Imperial County, Lake Havasu National Wildlife Refuge, and the Colorado River Indian Reserve	Summers in open terrain near shallow lakes or freshwater marshes; winters in plains and valleys near bodies of fresh water	
Western snowy plover <i>Charadrius alexandrinus nivosus</i> (coastal)	T/SSC	Winters along the coast from Del Norte County to San Diego County; breeding sites within this range are very limited	Coastal beaches above the normal high tide limit with wood or other debris for cover	
California least tern <i>Sterna antillarum</i> (=albifrons) browni	E/E	Nests on beaches along the San Francisco Bay and along the southern California coast from southern San Luis Obispo County south to San Diego County	Nests on sandy, upper ocean beaches, and occasionally uses mudflats; forages on adjacent surf line, estuaries, or the open ocean	
Marbled murrelet <i>Brachyramphus marmoratus</i>	T/E	Nesting sites from the Oregon border to Eureka and between Santa Cruz and Half Moon Bay; winters in nearshore and offshore waters along the entire California coastline	Mature, coastal coniferous forests for nesting; nearby coastal water for foraging; nests in conifer stands greater than 150 years old and may be found up to 35 miles inland; winters on subtidal and pelagic waters often well offshore	
Western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	--/E	Nests along the upper Sacramento, lower Feather, south fork of the Kern, Amargosa, Santa Ana, and Colorado Rivers	Wide, dense riparian forests with a thick understory of willows for nesting; sites with a dominant cottonwood overstory are preferred for foraging; may avoid valley oak riparian habitats where scrub jays are abundant	
Elf owl <i>Micrathene whitneyi</i> (nesting)	-/E	Rare spring and summer resident along the Lower Colorado River	Nests in desert riparian dominated by cottonwood, sycamore, willow, or mesquite; absent from riparian habitat dominated by saltcedar	

Common and Scientific Name	Status <sup>a</sup>		California Distribution	Habitats
	Federal/State			
Northern spotted owl <i>Strix occidentalis caurina</i>	T/SSC	A permanent resident throughout its range; found in the north Coast, Klamath, and western Cascade Range from Del Norte County to Marin County	Dense old-growth forests dominated by conifers with topped trees or oaks available for nesting crevices	
Great gray owl <i>Strix nebulosa</i>	--/E	Permanent resident of the Sierra Nevada in Warner Mountains south to the Yosemite area	Late successional coniferous forests bordering meadows	
Gila woodpecker <i>Melanerpes uropygialis</i>	--/E	Resident of the Lower Colorado River and locally near Brawley, Imperial County	Frequents desert riparian habitats and desert washes; also found in orchards and urban parks with shade trees	
Gilded flicker <i>Colaptes chrysoides</i>	--/E	Breeds along the Lower Colorado River, the Mojave Desert, and the Owens Valley	Desert riparian areas, desert washes, and habitats with Joshua trees and saguaro cactus	
Willow flycatcher <i>Empidonax traillii</i>	SC/E	Summer range includes a narrow strip along the eastern Sierra Nevada from Shasta County to Kern County, another strip along the western Sierra Nevada from El Dorado County to Madera County; widespread in migration	Riparian areas and large, wet meadows with abundant willows for breeding; usually found in riparian habitats during migration	
Southwestern willow flycatcher <i>Empidonax traillii extimus</i>	E/E	Breeds in coastal southern California in the Los Angeles Basin, the San Bernardino/Riverside area, and San Diego County; no longer breeds along the Colorado River and is known to exist only in eight widely disjunct nesting populations	Densely vegetated riparian habitat with streamside associations of cottonwoods and willows	
Bank swallow <i>Riparia riparia</i>	--/T	The state's largest remaining breeding populations are along the Sacramento River from Tehama County to Sacramento County and along the Feather and lower American Rivers and Cache Creek, in the Owens Valley; nesting areas also include the plains east of the Cascade Range south through Lassen County, northern Siskiyou County, and small populations near the coast from San Francisco County to Monterey County	Nests in bluffs or banks (usually steep), adjacent to water, where the soil consists of sand or sandy loam to allow digging	
California gnatcatcher <i>Poliophtila californica</i>	T/SSC	Found only along the southern California coast from Los Angeles County to San Diego County	Permanent resident in coastal sage scrub, where it prefers relatively dense stands dominated by California sage ( <i>Artemesia californica</i> )	

Table F-2. Continued

Common and Scientific Name	Status <sup>a</sup>		California Distribution	Habitats
	Federal/State			
San Clemente loggerhead shrike <i>Lanius ludovicianus mearnsi</i>	E/--	San Clemente Island		Prefers open habitats (washes, ravines, and mesas) with scattered shrubs, trees, posts, fences, or other perches
Least Bell's vireo <i>Vireo bellii pusillus</i>	E/E	Small populations remain in southern Inyo, southern San Bernardino, Riverside, San Diego, Orange, Los Angeles, Ventura, and Santa Barbara Counties		Riparian thickets either near water or in dry portions of river bottoms; nests along margins of bushes and forages low to the ground; may also be found using mesquite and arrow weed in desert canyons
San Clemente sage sparrow <i>Amphispiza belli clementeae</i>	T/--	San Clemente Island and possibly San Nicolas and Santa Rosa Islands		Brushlands
Belding's savannah sparrow <i>Passerculus sandwichensis beldingi</i>	SC/E	Small, fragmented populations remain along the coast from Santa Barbara County to San Diego County		Tidal areas supporting pickleweed; may also use alkali sloughs on the coastal plains
Inyo California towhee <i>Pipilo crissalis cromophilus</i>	T/E	Restricted to a 95-square-mile area of the Mojave Desert west of Death Valley, Inyo County		Nests in dense stands of riparian vegetation, especially arroyo willow and desert olive; forages in sparsely vegetated desert scrub
Riparian brush rabbit <i>Sylvilagus bachmani riparius</i>	PE/E	Limited to San Joaquin County at Caswell State Park near the confluence of the Stanislaus and San Joaquin Rivers		Dense thickets of brush associated with riparian or chaparral habitats
Point Arena mountain beaver <i>Aplodontia rufa nigra</i>	E/SSC	Known only from Alder Creek in the Point Arena area of Mendocino County		North-facing, wooded slopes of ridges or gullies where there is abundant moisture, thick under growth, and soft soil for burrowing
Nelson's antelope ground squirrel <i>Ammospermophilus nelsoni</i>	SC/T	Western side of the San Joaquin Valley from southern Merced County south to Kern and Tulare Counties; also found on the Carrizo Plain in San Luis Obispo County and the Cuyama Valley in San Luis Obispo and Santa Barbara Counties		Arid grasslands from 200 to 1,200 feet, with loamy soils and moderate shrub cover of atriplex and other shrub species
Mohave ground squirrel <i>Spermophilus mohavensis</i>	SC/T	Southwestern Inyo County, eastern Kern County, northwestern San Bernardino County, and northeastern Los Angeles County		Saltbush, alkali desert, and creosote bush scrub at elevations from 1,800 to 5,000 feet

Common and Scientific Name	Status <sup>a</sup>		California Distribution	Habitats
	Federal/State			
Morro Bay kangaroo rat <i>Dipodomys heermanni morroensis</i>	E/E	Found only near Los Osos, San Luis Obispo County	Coastal scrub habitats on old sand dune soils	
San Bernardino Merriam’s kangaroo rat <i>Dipodomys merriami parvus</i>	E/SSC	Occurs from the San Bernardino Valley in San Bernardino County to the Menifee Valley in Riverside County	Occurs primarily on sandy loam substrates characteristic of alluvial fans and flood plains dominated by various types of coastal sage scrub and chaparral habitat in early to intermediate successional stages	
Fresno kangaroo rat <i>Dipodomys nitratoides exilis</i>	E/E	Found only in Fresno County	Found at elevations from 200 to 300 feet in alkali sink habitats	
Tipton kangaroo rat <i>Dipodomys nitratoides nitratoides</i>	E/E	Occurs in the Tulare Lake Basin in portions of Fresno, Tulare, and Kern Counties	Found at elevations from 200 to 300 feet in arid grassland and alkali desert scrub communities with sparsely scattered shrubs; soil is usually finely textured and alkaline; may use areas that flood in winter and spring	
Stephens’ kangaroo rat <i>Dipodomys stephensis</i> (incl. <i>D. cascus</i> )	E/T	Found in the San Jacinto Valley in western Riverside, southwestern San Bernardino, and northwestern San Diego Counties	Uses annual grasslands with sparse perennial vegetation	
Giant kangaroo rat <i>Dipodomys ingens</i>	E/E	Occurs at high densities in only 12 square miles of habitat along the western side of the San Joaquin Valley, in five separate localities on Elkhorn Plain, Carrizo Plain, McKittrick Valley, and Cuyama Valley in Kern and San Luis Obispo Counties	Restricted to flat, sparsely vegetated areas with native annual grassland and shrubland habitats; requires uncultivated soils consisting of dry, fine, sandy loams for burrowing	
Pacific pocket mouse <i>Perognathus longimembris pacificus</i>	E/SSC	Historically, inhabited the coastal plains from El Segundo in Los Angeles County south to the Mexico border; only one population is known from Los Angeles County	Open areas with dense scrub and very fine sandy soils	
Salt marsh harvest mouse <i>Reithrodontomys raviventris</i>	E/E	San Francisco, San Pablo, and Suisun Bays	Salt marshes with a dense plant cover of pickleweed and fat hen; adjacent to an upland site	
San Joaquin Valley woodrat <i>Neotoma fuscipes riparia</i>	PE/SSC	Caswell Memorial State Park, Stanislaus River	Riparian habitat	

Common and Scientific Name	Status <sup>a</sup>		California Distribution	Habitats
	Federal/State			
Amargosa vole <i>Microtus californicus scirpensis</i>	E/E	Found only along the Amargosa River near Tecupa and Shoshone, Inyo County	Uses pockets of wetlands containing bulrushes, cattails, saltgrass, and willows	
San Joaquin kit fox <i>Vulpes macrotis mutica</i>	E/T	Principally occurs in the San Joaquin Valley and adjacent open foothills to the west; recent records from 17 counties extending from Kern County north to Contra Costa County	Saltbush scrub, grassland, oak, savanna, and freshwater scrub	
Sierra Nevada red fox <i>Vulpes vulpes necator</i>	SC/T	Cascade Range east to the Sierra Nevada then south to Tulare County	Red fir and lodgepole pine forests, generally from 5,000 to 8,400 feet, associated with mountain meadows	
California wolverine <i>Gulo gulo luteus</i>	SC/T	Klamath and Cascade Ranges south through the Sierra Nevada to Tulare County	Sighted in a variety of habitats from 1,600 to 14,200 feet; most common in open terrain above timberline and subalpine forests	
Southern sea otter <i>Enhydra lutris nereis</i>	T/FP	Central Coast from San Mateo County to Santa Barbara County	Nearshore marine environment	
Guadalupe fur seal <i>Arctocephalus townsendii</i>	T/T	Primarily Baja California, but occasionally on San Miguel Island and San Nicolas Island	Rocky insular shorelines and sheltered coves	
Northern (Steller) sea lion <i>Eumetopias jubatus</i> (rookery)	T/--	Rookeries occur on Año Nuevo Island, Farallon Islands, Point Saint George, and Sargarloaf on Cape Mendocino	Rookeries occur on rocky, isolated islands and peninsulas; feeds in nearshore water	
California bighorn sheep <i>Ovis canadensis californiana</i>	SC/T	Southern Sierra Nevada	Shrublands, grasslands, and riparian habitats in rugged terrain	
Peninsular bighorn sheep <i>Ovis canadensis cremnobates</i>	PE/T	San Jacinto Mountains south of Palm Springs, Riverside County south to the Mexican border	Open areas in steep, rugged terrain with sparse vegetation with adequate water supply	

<sup>a</sup> Status definitions:

**Federal**

- E = listed as endangered under the federal Endangered Species Act.
- T = listed as threatened under the federal Endangered Species Act.
- PE = proposed for federal listing as endangered under the federal Endangered Species Act.
- PT = proposed for federal listing as threatened under the federal Endangered Species Act.

- SC = species of concern; species for which existing information indicates it may warrant listing but for which substantial biological information to support a proposed rule is lacking.
- = no designations.

**State**

- E = listed as endangered under the California Endangered Species Act.
- T = listed as threatened under the California Endangered Species Act.
- FP = fully protected under the California Fish and Game Code.
- SSC = species of special concern in California.
- = no designations.
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